Point of departure

This project was commenced for a client in the agricultural industry. The old construction had many problems with fatigue failure and deformation due to welding.

The goal was twofold; first the welded part needed to be converted to a cost-efficient casting, while increasing the performance. Secondly the part needed to be delivered with a next to impossible deadline: 10 weeks.

Weight reduction

From 18 kg in steel to 8.2 kg in ductile iron

Cost reduction

Reducing machining costs and the amount of material

Fit into requirements

The problems were eliminated during the engineering of a new, optimised sand casting. The product was built into the machine within the deadline of 10 weeks.